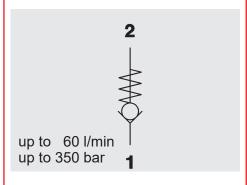
MAC INTERNATIONAL

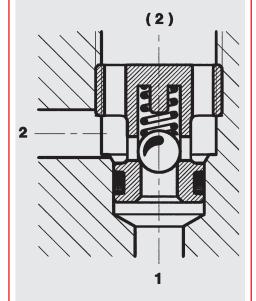


Check Valve Direct-Acting Cartridge – 350 bar RVE-G 1/8 to 1/2

FUNCTION

FEATURES

- Check valves for mounting directly into control blocks
- Both axial and radial flow direction
- Choice of four sizes for optimum adaptability to the system
- Leakage-free poppet design for complete shut-off
- Cracking pressures other than 0.5 bar are available as an option



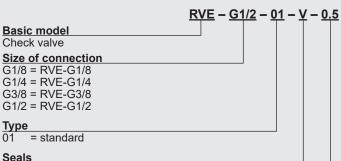
SPECIFICATIONS*

| Operating pressure: | max. 350 bar | | | |
|------------------------------------|--|--|--|--|
| Nominal flow: | RVE-G1/8 to max. 10 l/min | | | |
| | RVE-G1/4 to max. 10 l/min | | | |
| | RVE-G3/8 to max. 30 I/min | | | |
| | RVE-G1/2 to max. 60 l/min | | | |
| Media operating temperature range: | min20 °C to max. +120 °C | | | |
| Ambient temperature range: | min20 °C to max. +120 °C | | | |
| Operating fluid: | Hydraulic oil to DIN 51524 Part 1, 2 and 3 | | | |
| Viscosity range: | min. 2.8 mm²/s to max. 800 mm²/s | | | |
| Filtration: | Class 21/19/16 according to ISO 4406 or | | | |
| | cleaner | | | |
| MTTF _d : | 150 - 1200 years, | | | |
| u | according to DIN EN ISO 13849-1 | | | |
| Installation: | No orientation restrictions | | | |
| Materials: | Valve body: steel | | | |
| | Seals: FKM | | | |
| Cavity: | 04020, 04220, 06320, 08220 | | | |
| Weight: | RVE-G1/8 = 0.003 kg | | | |
| | RVE-G1/4 = 0.005 kg | | | |
| | RVE-G3/8 = 0.010 kg | | | |
| | RVE-G1/2 = 0.024 kg | | | |

The RVE is a check valve which allows flow in one direction (port 1 \rightarrow 2) and shuts off flow in the other direction. The design is a spring-loaded ball with a standard cracking pressure of 0.5 bar.

EN 5.176.14/07.19

^{*} see "Conditions and instructions for valves" in brochure 53.000



V = FKM (Standard) N = NBR

Cracking pressure
0.5 = 0.5 bar other cracking pressure on request

Standard models

| Model code | Part No. |
|-------------------|----------|
| RVE-G1/8-01-V-0,5 | 710150 |
| RVE-G1/4-01-V-0,5 | 710151 |
| RVE-G3/8-01-V-0,5 | 710152 |
| RVE-G1/2-01-V-0,5 | 710153 |

other models on request

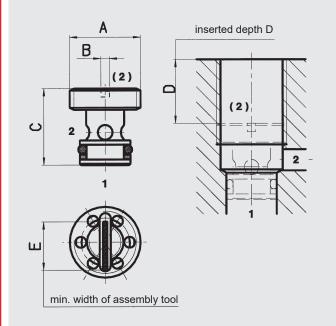
Standard in-line bodies

On request

Seal kits

| Code | Part No. |
|----------------------|----------|
| Sealkit RVE(S.)Viton | 480083 |

DIMENSIONS

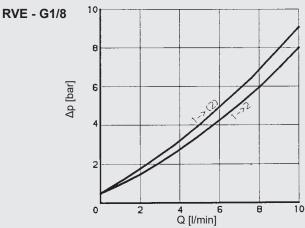


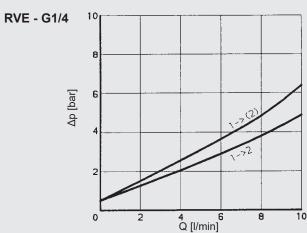
Valves must be screwed in to the inserted depth D (see below) and secured appropriately. Securing by closing screw or calk thread! If screwed in too far, leaks may occur!

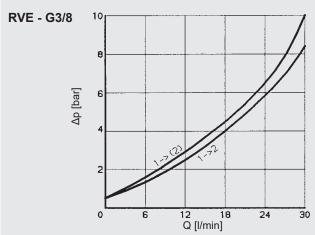
| Description | Α | В | С | D | E |
|-------------|-------|-----|----|------|------|
| RVE-G1/8 | G1/8" | 1.5 | 13 | 10 | 7 |
| RVE-G1/4 | G1/4" | 1.5 | 13 | 14.5 | 8.5 |
| RVE-G3/8 | G3/8" | 2 | 18 | 15 | 13.5 |
| RVE-G1/2 | G1/2" | 2 | 23 | 17 | 12 |

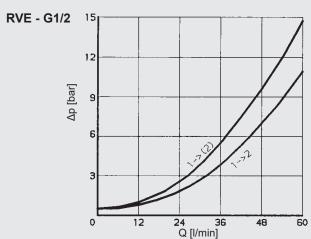
TYPICAL PERFORMANCE

Pressure drops, dependent on flow rate Measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{oil} = 46 ^{\circ}\text{C}$

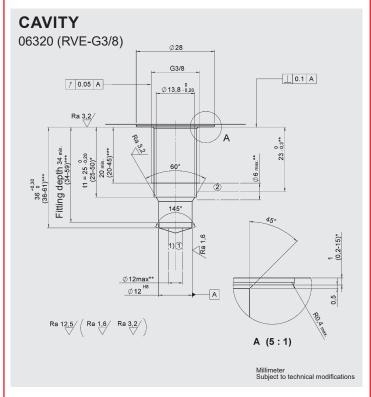








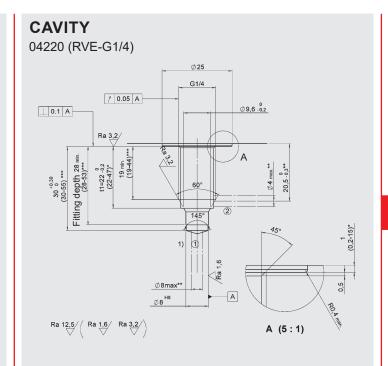
CAVITY 04020 (RVE-G1/8) /0.05 A A . E 10.1A Ral Ra3.2 (2) 14.5mi Χ R 0.4 max Ø8 max Ra12.5/(Ra3.2/Ra1.6/ Millimeter Subject to technical modifications

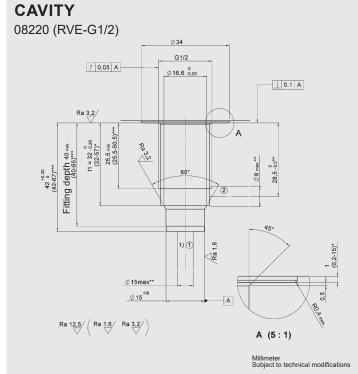


- specify for flange and manifold construction
- depending on flange and manifold construction
- dimension is changed by the same value as t1
- continuing bore 1 can also be excentric

Info:

Cavity G1/4, G3/8 and G1/2 for aluminium processing





Form tools

| Tool | Part No./Cavity | | | | |
|-----------------|-----------------|---------|---------|---------|--|
| | 04020 | 04220 | 06320 | 08220 | |
| Countersink MK1 | 169549 | 169563 | 169550 | 158735 | |
| Reamer MK1 | 1000747 | 1000747 | 1014203 | 1000768 | |
| Тар | 1002671 | 1002670 | 1002668 | 1002667 | |
| Plug gauge | 174850 | 172742 | 172826 | 158736 | |

NOTE

The information in this brochure relates to the operating conditions and applications

described.
For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 / 509-01 Fax: 0 68 97 / 509-598 E-Mail: valves@hydac.com

Millimeter Subject to technical modifications